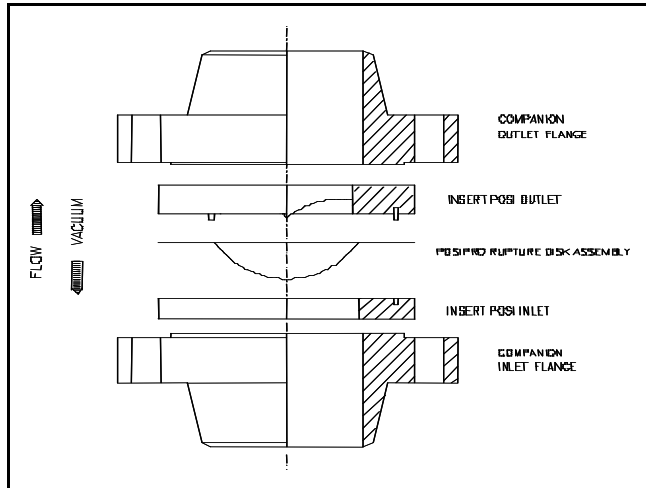


# Installation Instructions for POSIPRO Rupture Disks in POSI Holder

## TYPICAL POSI INSTALLATION



## CAUTION

All rupture disk installations should be located to allow full unrestricted discharge of a burst disk when overpressure of the system occurs. Never locate a rupture disk assembly where the discharge from a burst disk can directly impact personnel or equipment. Venting of a burst disk discharge must always be routed to a safe disposal area. Handle burst rupture disks carefully! Avoid their sharp, jagged edges when removing same from holder. The knife blades in the POSS holder are extremely sharp. Handle holders very carefully to avoid injury.

The POSIPRO rupture disk assembly is a dual acting precision piece of equipment. Handle it with extreme care. Avoid scratching, bending, denting or damaging the dome and/or flat seat areas of the metal disk membrane. Handle the disk by the flat outer annular seating surfaces and avoid the dome area as much as possible. Never carry a POSIPRO disk/holder assembly by the name tag alone as damage to the disk could occur. Do not place tools or foreign

objects on top of the knife blades or holder. The knife blades must be kept very sharp and free of nicks and defects in order for the disk assembly to function properly.

## RUPTURE DISK HOLDER PREPARATION

1) Loosen and remove flange bolting only after verifying that the system is depressurized. Always purge toxic and/or dangerous materials to a safe disposal area from any system that is to be opened to a safe disposal area..

2) Slip the holder insert from between the companion piping flanges and place on a flat work surface. Verify that all holder restraints have been removed. Separate the holder inlet from the outlet and remove the existing rupture disk assembly.

3) Thoroughly inspect and clean all seating surfaces of the disk holder. Do not scrape or scratch any seating surface! If wiping these surfaces with a clean cloth and a suitable solvent does not remove surface residues, fine emery cloth or steel wool may be utilized. Care should be exercised not to exert sufficient pressure on the emery cloth or steel wool to "cut or groove" these surfaces. When in doubt about the proper condition of these seal surfaces, contact OSECO for further instructions.

4) Inspect knife blade points and edges. Knife blade edges must be razor sharp and free of nicks or defects. Points must be sharp and undamaged for the disk assembly to work properly. Contact OSECO for repair or replacement of dull or damaged knife blades. Do not install the assembly if the blades are dull, nicked or damaged.

## RUPTURE DISK INSTALLATION

1) Carefully unpack the rupture disk assembly. If the rupture disk assembly was packaged with a device marked "SHIPPING PROTECTOR - DO NOT USE", remove same now.

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**POSIPRO / POSI TORQUE TABLE**

DISK SIZE		FITTING SIZE		TORQUE VALUE	
IN.	mm	ANSI	DIN	FT LB	N M
3	80	150	-	40	54
-	-	-	10/16	20	27
4	100	150	10/16	30	41
6	150	150	-	40	54
-	-	-	10/16	42	57
8	200	150	-	50	68
-	-	-	10	52	70
-	-	-	16	35	47
10	250	150	-	70	85
-	-	-	10	63	85
-	-	-	16	76	103

2) Place the insert POSI Inlet on a flat work surface with the pin holes up. Place the rupture disk assembly on the holder, carefully aligning the holes in the flange portion of the rupture disk assembly with the holes in the POSI inlet. Dome goes down into the inlet.

3) Position the Insert POSI Outlet over the rupture disk assembly, carefully aligning the POSI inlet alignment holes with the pins in the POSI outlet. Then lower the POSI outlet until it engages the POSI inlet alignment holes and rests on the flat outer annular seating surface of the rupture disk assembly. If interference is present, correct before continuing.

4) Install sidebars; however, cap screws should only be snug, not wrench tight.

5) Check companion flanges and verify that sealing surfaces are clean and free of corrosion and debris.

6) Position the POSI/POSIPRO assembly within the bolt circle of companion piping flanges. The convex side (dome) of the rupture disk assembly should face the process or possible vacuum source. Reinstall studs, nuts and suitable gaskets. Studs and nuts should be lightly oiled and free running.

7) Tighten each nut finger tight, then using a calibrated torque wrench, tighten each nut in a cross pattern. Use increments of 20% of the recommended torque value listed in the adjacent table. Do not use torque values in excess of those shown in the table as this may damage the disk or the bite seal on the holder